STIC Database Tracking Number: 226650

TO: Jeff Swearingen
Location: 4C61
Art Unit: 2145
Thursday, June 14, 2007

Case Serial Number: 10/603995

From: Lucy Park
Location: EIC 2100
RND 4B31
Phone: 2-8667

lucy.park@uspto.gov

Search Notes

Dear Examiner Swearingen:

Here are the results of your search on case #10/603995. Please let me know if you have any questions about the search, or if you'd like me to refocus it.

Thanks,
Lucy

Lucy Park
Patent Searcher
EIC 2100
571-272-8667

; d s
Set	Items	Postings	Description
S1	1893	4116	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
S2	229	321	S VINI
S3	9798	43783	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
S4	0	0	S S1 AND S2 AND S3
S5	0	0	S S2 AND S3
S6	0	0	S S1 AND S2
S7	8	96	S S2 AND NETWORK???
S8	5	58	RD (unique items)
S9	0	0	S S1 AND S3
S10	12	48	S VIRTUAL()NETWORK()INFRASTRUCTURE
S11	8	33	RD (unique items)
S12	4	18	S S11 NOT S8

8/5/1 (Item 1 from file: 2) **Links**
   Fulltext available through: ACM - Association for Computing Machinery   USPTO Full Text Retrieval Options
INSPEC

10190852
Title: In VINI Veritas: realistic and controlled network experimentation
Author Bavier, A.; Feamster, N.; Huang, M.; Peterson, L.; Rexford, J.
Author Affiliation: Princeton Univ., NJ, USA
Journal: Computer Communication Review   vol.36, no.4   p. 3-14
Publisher: ACM ,
Publication Date: Oct. 2006 **Country of Publication:** USA
CODEN: CCRED2 **ISSN:** 0146-4833
SICI: 0146-4833(200610)36:4L.3:VVRC;1-#
   Material Identity Number: B579-2006-004
U.S. Copyright Clearance Center Code: 1-59593-308-5/06/0009...$5.00

Language: English   **Document Type:** Journal Paper (JP)
Treatment: Experimental (X)
Abstract: This paper describes **VINI**, a virtual **network** infrastructure that allows **network** researchers to evaluate their protocols and services in a realistic environment that also provides a high degree of control over **network** conditions. **VINI** allows researchers to deploy and evaluate their ideas with real routing software, traffic loads, and **network** events. To provide researchers flexibility in designing their experiments, **VINI** supports simultaneous experiments with arbitrary **network** topologies on a shared physical infrastructure. This paper tackles the following important design question: What set of concepts and techniques facilitate flexible, realistic, and controlled experimentation (e.g., multiple topologies and the ability to tweak routing algorithms) on a fixed physical infrastructure? We first present **VINI's** high-level design and the challenges of virtualizing a single **network**. We then present PL-**VINI**, an implementation of **VINI** on PlanetLab, running the "Internet In a slice". Our evaluation of PL-**VINI** shows that it provides a realistic and controlled environment for evaluating new protocols and services. (28 Refs)
 Subfile: B C
Descriptors: Internet; routing protocols; telecommunication control; telecommunication **network** topology; telecommunication traffic
Identifiers: virtual **network** infrastructure; **VINI** Veritas; **network** control; protocol; traffic load; routing software; arbitrary **network** topology; PlanetLab; Internet
Class Codes: B6210L (Computer communications); B6150M (Protocols); B6150P (Communication network design, planning and routing); C5620W (Other computer networks); C3370G (Control applications in data transmission); C5640 (Protocols)

bad date ,

FY

8/5/3 (Item 1 from file: 266) <u>Links</u>
FEDRIP
00467837
Identifying No.: 0626950   **Agency Code:** NSF
NeTS-FIND: Collaborative Research: Concurrent Architectures are Better than One

.

Principal Investigator: Feamster, Nicholas G
Performing Org.: Georgia Tech Research Corporation - GA Institute of Technology, College Of Computing ,
Atlanta , GA   30332-0420
Project Monitor: Parulkar, Gurudatta M.
Sponsoring Org.: National Science Foundation, CNS , 4201 Wilson Boulevard , Arlington , Virginia   22230

Dates: 20060915 To 20070831   **Fy :** 2006   **Funds:** $230,340 (200000)
Summary: In today's Internet, a single service provider rarely has purview over an entire end-to-end path; this situation hinders the deployment and adoption of new **network** services. The PI propose to design and prototype a new **network** architecture, Cabo (Concurrent Architectures are Better than One), which resolves this problem by separating infrastructure providers (who own and manage the physical **network** infrastructure) from service providers (who deploy end-to-end services to users). Using Cabo, service providers will reserve **network** resources (i.e., virtual nodes and links) on equipment that may span one or more infrastructure providers. The separation of **network** service providers from infrastructure providers also allows a single service provider to construct end-to-end services; it also allows a service provider to operate multiple virtual **networks**, each of which is tailored to a specific application. For example, one virtual **network** may provide strict security guarantees but may not provide complete reachability to all destinations, while another virtual **network** may guarantee global reachability for applications that do not require strong security guarantees. The outcome of this project will be: (1) the design and implementation of a substrate that service providers can use to deploy new **network** architectures and services, and (2) investigation of example scenarios where Cabo can provide better security, robustness, and end-to-end performance guarantees. Cabo's initial design leverages virtualization, tunneling, and new experimental platforms for **network** protocols and architectures, including the PIs' own Virtual **Network** Infrastructure (**VINI**), which the PIs plan to use to prototype and evaluate their ideas. Successful completion of this project will have significant impact on Future Internet architecture development and deployment.

[File 9] **Business & Industry(R)** Jul/1994-2007/Jun 11

[File 13] **BAMP** 2007/Jun W2

[File 15] **ABI/Inform(R)** 1971-2007/Jun 14

[File 16] **Gale Group PROMT(R)** 1990-2007/Jun 12

[File 20] **Dialog Global Reporter** 1997-2007/Jun 14

[File 47] **Gale Group Magazine DB(TM)** 1959-2007/Jun 04

[File 75] **TGG Management Contents(R)** 86-2007/Jun W1

[File 88] **Gale Group Business A.R.T.S.** 1976-2007/Jun 08

[File 98] **General Sci Abs** 1984-2007/Jun

[File 141] **Readers Guide** 1983-2007/Apr

[File 148] **Gale Group Trade & Industry DB** 1976-2007/Jun 12

[File 160] **Gale Group PROMT(R)** 1972-1989

[File 275] **Gale Group Computer DB(TM)** 1983-2007/Jun 12

[File 369] **New Scientist** 1994-2007/Jan W1

[File 370] **Science** 1996-1999/Jul W3
File 370: This file is closed (no updates). Use File 47 for more current information.

[File 484] **Periodical Abs Plustext** 1986-2007/Jun W2

[File 553] **Wilson Bus. Abs.** 1982-2007/Jun

[File 610] **Business Wire** 1999-2007/Jun 14
File 610: File 610 now contains data from 3/99 forward. Archive data (1986-2/99) is available in File 810.

[File 613] **PR Newswire** 1999-2007/Jun 14
File 613: File 613 now contains data from 5/99 forward. Archive data (1987-4/99) is available in File 813.

[File 621] **Gale Group New Prod.Annou.(R)** 1985-2007/Jun 11

[File 624] **McGraw-Hill Publications** 1985-2007/Jun 06
(c) 2007 McGraw-Hill Co. Inc. All rights reserved.
File 624: Homeland Security & Defense and 9 Platt energy journals added Please see HELP NEWS624 for more

[File 634] **San Jose Mercury** Jun 1985-2007/Jun 13
(c) 2007 San Jose Mercury News. All rights reserved.

[File 635] **Business Dateline(R)** 1985-2007/Jun 14
(c) 2007 ProQuest Info&Learning. All rights reserved.

[File 636] **Gale Group Newsletter DB(TM)** 1987-2007/Jun 01
(c) 2007 The Gale Group. All rights reserved.

[File 647] **CMP Computer Fulltext** 1988-2007/Sep W1
(c) 2007 CMP Media, LLC. All rights reserved.

[File 674] **Computer News Fulltext** 1989-2006/Sep W1
(c) 2006 IDG Communications. All rights reserved.
File 674: File 674 is closed (no longer updates).

[File 696] **DIALOG Telecom. Newsletters** 1995-2007/Jun 13
(c) 2007 Dialog. All rights reserved.

[File 810] **Business Wire** 1986-1999/Feb 28
(c) 1999 Business Wire . All rights reserved.

[File 813] **PR Newswire** 1987-1999/Apr 30
(c) 1999 PR Newswire Association Inc. All rights reserved.

; d s
Set	Items	Postings	Description
S1	67201	179004	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
S2	1634	2433	S VINI
S3	122246	489932	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
S4	0	0	S S1(100N)S2(100N)S3
S5	0	0	S S2(100N)S3
S6	0	0	S S1(100N)S2
S7	91	304	S S2(100N)NETWORK?
S8	53	182	RD (unique items)
S9	43	157	S S8 NOT PY=2003:2007

File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit http://www.dialog.com/dwpi/.

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Set	Items	Postings	Description
S1	258	1315	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
S2	79	187	S VINI
S3	8245	79934	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
S4	0	0	S S1 AND S2 AND S3
S5	0	0	S S2 AND S3
S6	0	0	S S1 AND S2
S7	0	0	S S2 AND IC=G06F
S8	0	0	S S2 AND NETWORK???
S9	4	114	S S1 AND S3

patent
abstracts

9/5/1 (Item 1 from file: 350) **Links**
Derwent WPIX

0015053591 *Drawing available*
WPI Acc no: 2005-401615/200541
XRPX Acc No: N2005-325490
Service activation in automated integrated telecommunication and data communication network, involves routing service components in service order received in generic service request format, to domain manager
Patent Assignee: AGILENT TECHNOLOGIES INC (AGIL-N)
Inventor: BIMM M S; CAI Y; CLARK D P; CUSTEAU R D; KLEINBACH S J; RUSSELL R J; TORY D C

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 6901440	B1	20050531	US 1999347112	A	19990702	200541	B

Priority Applications (no., kind, date): US 1999347112 A 19990702

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 6901440	B1	EN	32	15	

Alerting Abstract US B1
NOVELTY - A service order having one or more service components in generic service request format applicable for multiple vendors or version number, is received. The service components are routed to appropriate domain manager which translates the components into corresponding device specific parameters. The network elements responsive to the device specific parameters, are activated so as to activate network service.
DESCRIPTION - An INDEPENDENT CLAIM is also included for service activation system.
USE - For activating universal services including short messaging service (SMS), **network management system** (NMS), operation supporting service (OSS), in automated integrated telecommunication and data communication network.
ADVANTAGE - Enables activation of network services during runtime with no downtime and readily extendible to several vendor devices or management protocol without undue maintenance effort. Reduces the complexity in formatting service orders by surface generic representations of services and actions for technology domains, while minimizing overhead demands on **network management system**.
DESCRIPTION OF DRAWINGS - The figure shows block diagram of **network management system (NMS)**.

; d s

Set	Items	Postings	Description
S1	807	2570	S VERSION? ?(3N)(INDEPENDENT? OR INDEPENDENC? OR GENERIC?)
S2	247	526	S VINI
S3	4984	79918	S (NETWORK??? OR ELEMENT? ?)(3N)(MANAG??? OR MANAGEMENT)()SYSTEM? ?
S4	0	0	S S1(100N)S2(100N)S3
S5	0	0	S S2(100N)S3
S6	0	0	S S1(100N)S2
S7	18	65	S S2 AND IC=G06F
S8	12	29	S S7 NOT AD=20020629:20070614/PR
S9	2	13	S S1(50N)S3

fulltext
patents

9/3K/2 (Item 1 from file: 349) <u>Links</u>
PCT FULLTEXT

00762381
SOFTWARE TRANSLATION USING METADATA
TRADUCTION DE LOGICIELS A L'AIDE DE METADONNEES

Patent Applicant/Patent Assignee:

• **SYCAMORE NETWORKS INC**; 150 Apollo Drive, Chelmsford, MA 01824-0986
    US; US(Residence); US(Nationality)

Legal Representative:

• **SCHURGIN Stanley M(et al)(agent)**
    Weingarten, Schurgin, Gagnebin & Hayes LLP, Ten Post Office Square, Boston, MA 02109; US;

	Country	Number	Kind	Date
Patent	WO	200075784	A1	20001214
Application	WO	2000US12049		20000502
Priorities	US	99137355		19990603
	US	2000557329		20000424

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

Publication Language:	English
Filing Language:	English
Fulltext word count:	13368

Detailed Description:

...requirements.

The disclosed system is described in connection
with an illustrative embodiment, which provides a
version independent network management system that
simplifies and facilitates network upgrades. As
disclosed herein, using the disclosed system, all
versions of software are forward and backward
SUBSTITUTE SHEET (RULE 26)
compatible. To achieve such **version independence,**
version information is captured as part of the metadata
used by the disclosed system. Additionally, as...

Google

"version independent" vini	Search	Advanced Search
		Preferences

Web   Results **1 - 2** of **2** for **"version independent" vini**. (**0.15** seconds)

Tip: Try removing quotes from your search to get more results.

Program ASYM
Most of the respective initializations are performed in subroutines asyminput and **vini**. In
any case please report bugs to volker.typke@uni-ulm.de.
www.uni-ulm.de/~typke/progbe/asym.html - 64k - Supplemental Result -
Cached - Similar pages

Assistant Blog: July 2004
Would **Vini** Reilly ever have imagined that one day a pasty-faced Hollywood actor would be
clutching a guitar and pretending to be him? Great. ...
assistantbrighton.blogspot.com/2004_07_01_archive.html - 242k - Supplemental Result -
Cached - Similar pages

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"version independent" vini	Search

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"version independent" vini

Web Search Adv.

Did you mean: "version independent" **vinci**

No document matched your search

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∘ ⊙ ○ find it all ○ ⊙ ∘

"version independent" vini | SEARCH

Results in: ○ Any Language ⊙ English

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Offensive content filter: **On** - Off

No Web pages found that match your query.

Suggestions:

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Web Search Results for ""version independent" vini"

Now Searching   Google   YAHOO! SEARCH   Live Search   And More...

1 - 14 of 14 from All Search Engines (About Results)

1. **The Future of Wireless**
    Cingular is Now the New AT&T. Innovative Technology "On the Go".
    Sponsored by: att.com/wireless/ [Found on Ads by Google]

2. **Vini Della Costa Toscana**
    Vini Della Costa Toscana, Italian Cuisine, Though Chianti and Montalcino are Tuscanys best-known wine producing a
    Chianti Classico and
    italianfood.about.com/b/a/257451.htm [Found on About]

3. **06-06-06 a Big Disappointment, More Da Vini Code Denunciation, God Has a Sense of ...**
    06-06-06 a Big Disappointment, More Da Vini Code Denunciation, God Has a Sense of Humor, Alternative Religions,
    day has come and gone, and no apocalypse, no catastrophes,...
    altreligion.about.com/b/a/257216.htm [Found on About]

4. **Verizon Wireless**
    $39.99 per month Verizon plan. Free camera phone. Ends soon.
    Sponsored by: www.cellularchoices.net/ [Found on Ads by Google]

5. **Viaggio Tra i Grandi Vini di Sicilia**
    Andrea Zanfi takes a breathtaking look at the wines of Sicily.
    italianfood.about.com/library/weekly/blbk23.htm [Found on About]

6. **Italian Cuisine August 2006 Archive**
    italianfood.about.com/b/a/2006_08_29.htm [Found on About]

7. **Alternative Religions June 2006 Archive**
    altreligion.about.com/b/a/2006_06_07.htm [Found on About]

8. **The Italian Cusine Quiz!**
    Test your knowledge of Italian cooking!
    italianfood.about.com/library/weekly/blquiz4.htm [Found on About]

9. **Agnellini Pasquali - Sicilian Easter Marzipan Lambs**
    Agnellini Pasquali: Sicilian Easter Marzipan Lambs. Pino Correnti discusses them at length in "Il Grande Libro della C
    di Sicilia" (Mursia Editore).
    italianfood.about.com/od/italiandesserts/r/blr0732... [Found on About]

10. **Italian Cuisine, - Recipes**
    An index of Recipes for the Italian Cuisine guide site.
    italianfood.about.com/od/italiandesserts/r/index.h... [Found on About]

11. **Independent - Buy at DealTime.com!**
    Save time and money every time you shop! DealTime lets you compare products, prices and stores for free. Find th
    in seconds.
    Sponsored by: www.DealTime.com/ [Found on LookSmart]

12. **Catalani**
    Catalani: While we're on the subject of All Saint's Day, someone recently posted a request for a Sicilian cookie calle

forum. Pino Correnti, author of Il Libro d'Oro della Cuc...
italianfood.about.com/od/biscottietc/r/blr0882.htm [Found on About]

13.   **Independent - Compare & Save at Shopping.com**
Shop here to save money on clothing. Shopping.com is a great place to compare products, prices, and stores. Searc
deals online in just seconds.
Sponsored by: www.Shopping.com/ [Found on LookSmart]

14.   Cannoli Spicci -- Quick Cannoli
A shorter, somewhat simpler recipe for cannoli
italianfood.about.com/library/rec/blr0968.htm [Found on About]

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"version independent" vini

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Advanced Web Search
Build a query with...

all of these words:	vini	FIND
this exact phrase:	version independent	
any of these words:		
and none of these words		

SEARCH: ⦿ Worldwide ○ USA   **RESULTS IN:** ⦿ All languages ○ English, Spanish

We found 0 results. Suggestions:

- Check your spelling.
- Try different or fewer keywords.
- Remove quotation marks or plus signs.

Advanced Web Search   Help
Build a query with...

all of these words:	vini	FIND
this exact phrase:	version independent	
any of these words:		
and none of these words		

SEARCH: ⦿ Worldwide ○ USA   **RESULTS IN:** ⦿ All languages ○ English, Spanish

Date: ⦿ by timeframe: Anytime ▼

                ○ by date range: 1 ▼ January ▼ 1980 ▼
                                  14 ▼ June ▼ 2007 ▼

File type: Any format ▼

Location   ⦿ by domain: [   ]

                ○ By URL: [   ]

Display: ☐ site collapse (on/off)   What is this?

                10 ▼ results per page

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; d s
Set   Items  Postings  Description
S1    17       46  S AU=(JAIN C? OR JAIN, C?)
S2    11364  28558  S AU=(WANG Y? OR WANG, Y?)
S3    14       52  S AU=(CHAUDHARY A? OR CHAUDHARY, A?)
S4    41      108  S AU=(KANNAN R? OR KANNAN, R?)
S5    156     367  S AU=(LUO T? OR LUO, T?)
S6    40      176  S AU=(SUNDARAM M? OR SUNDARAM, M?)
S7    1806   4411  S AU=(ZHU J? OR ZHU, J?)
S8    114     372  S AU=(VENKATESAN R? OR VENKATESAN, R?)
S9    0         0  S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8
S10   58      609  S S1:S8 AND NETWORK? ?(3N)MANAG?
S11   5       280  S S10 AND NETWORK()ELEMENT? ?
```

Inventor
Search
—patents

0016556094 *Drawing available*
WPI Acc no: 2007-271031/200726
XRPX Acc No: N2007-201432
State model consistency providing method for network elements , involves coalescing attributes from different standards, in order to form internal state model, and displaying coalesced attributes on user interface
Patent Assignee: HAND S J (HAND-I); INFINERA CORP (INFI-N); JORGENSON A W (JORG-I); LIM H T (LIMH-I); LIOU C C (LIOU-I); MURPHY D P (MURP-I); SUBRAMANIAN S (SUBR-I); SYED S (SYED-I); VENKATESAN R (VENK-I)
Inventor: HAND S J; JORGENSON A W; LIM H T; LIOU C C; MURPHY D P; SUBRAMANIAN S; SYED S; **VENKATESAN R**

Patent Family (2 patents, 113 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
WO 2007005474	A1	20070111	WO 2006US25212	A	20060627	200726	B
US 20070100887	A1	20070503	US 2005695468	P	20050630	200731	E
			US 2006426515	A	20060626		

Priority Applications (no., kind, date): US 2005695468 P 20050630; US 2006426515 A 20060626

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
WO 2007005474	A1	EN	27	7		
National Designated States,Original	AE AG AL AM AT AU AZ BA BB BG BR BW BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HN HR HU ID IL IN IS JP KE KG KM KN KP KR KZ LA LC LK LR LS LT LU LV LY MA MD MG MK MN MW MX MZ NA NG NI NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SK SL SM SY TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW					
Regional Designated States,Original	AT BE BG BW CH CY CZ DE DK EA EE ES FI FR GB GH GM GR HU IE IS IT KE LS LT LU LV MC MW MZ NA NL OA PL PT RO SD SE SI SK SL SZ TR TZ UG ZM ZW					
US 20070100887	A1	EN			Related to Provisional	US 2005695468

Alerting Abstract WO A1
NOVELTY - The method involves receiving different interface standards such as *TL-1* , *TMY 814* and *ITU X.731* standards (301-303) having multiple attributes. Service state attributes for each standard are derived from a state selected from a group consisting of an administrative state (303.1), an operational state (303.2) from the *ITU X.731* standard, and qualifiers (301.2) from the TL-1 standard. The attributes from different standards are coalesced together, in order to form an internal state model. The coalesced attributes are displayed on a user interface.
DESCRIPTION - An INDEPENDENT CLAIM is also included for a computer program product embodied on a computer readable medium storing a set of instructions for providing consistency in a state model of attributes relative to multiple standards.
USE - Used for providing consistency in a state model of attributes relative to multiple interface standards such as *TL-1* , *TMY 814* and *ITU X.731* standards, and multiple objects in computer software programs running on **network elements** in telecommunication or data communication **network** system, for state management of the **network elements**.
ADVANTAGE - The coalesced attributes of the objects across different standards, are displayed, thus preventing inconsistencies between attributes of different or similar objects from multiple standards.

0016136109 *Drawing available*
WPI Acc no: 2006-667740/200669
XRPX Acc No: N2006-532959
**Interfacing method for use in communication network, involves receiving application independent request
including generic format data with open ended name value pair format**
Patent Assignee: CIENA CORP (CIEN-N)
Inventor: **JAIN C; VENKATESAN R**

<center>Patent Family (1 patents, 1 countries)</center>

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 7100149	B1	20060829	US 2002133284	A	20020426	200669	B

Priority Applications (no., kind, date): US 2002133284 A 20020426

<center>Patent Details</center>

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes
US 7100149	B1	EN	11	5	

Alerting Abstract US B1
NOVELTY - An application independent request, including generic operations and generic format data used by
client applications to transmit application independent request, for service is received at a **network element**. The
generic data format is an open ended name value pair format such that the data includes subset of value pairs
supported by different service applications. The request is mapped by managed object manager to a registry for
identifying service application which process the request and the service application is executed based on the
request.
USE - For interfacing clients with **managed** objects of **network element** in communication network.
ADVANTAGE - The scalability and functionality of the network of the **network element** is improved and the
complexity is reduced.
DESCRIPTION OF DRAWINGS - The figure shows the block diagram of the **network element** and generic
interface.

Derwent WPIX

0015445437 *Drawing available*
WPI Acc no: 2005-795159/200581
Related WPI Acc No: 2004-419050
XRPX Acc No: N2005-658744
Network configuring method e.g. for large-scale optical network, involves activating cross-connects to establish automatically defined connection within network elements, when manually defined connection is invalid
Patent Assignee: FUJITSU LTD (FUIT)
Inventor: GALOU S; LAFONTAINE F; LEVESQUE G; MUNIGANTI V; **WANG Y**; ZHU K

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Application Number	Kind	Date	Update	Type
US 20050254421	A1	20051117	US 2002300096	A	20021119	200581	B
			US 2005158112	A	20050621		

Priority Applications (no., kind, date): US 2002300096 A 20021119; US 2005158112 A 20050621

Patent Details

Patent Number	Kind	Lan	Pgs	Draw	Filing Notes	
US 20050254421	A1	EN	28	16	Continuation of application	US 2002300096

Alerting Abstract US A1
NOVELTY - The **network element** connection attributes including specific time slot on physical link coupling **network elements** , are defined to manually provide a set of cross-connects within each **network element**. Another set of cross-connects is provided automatically within **network elements**. The automatic cross-connects are activated to establish connection between **network elements**, when manually defined connection is invalid.
USE - For configuring network such as wide area optical network such as synchronous optical network (SONET), synchronous digital hierchial network (SDH).
ADVANTAGE - The invalid connection between **network elements** is avoided reliably. Allows user to manually configure connections among **network elements** within the network.
DESCRIPTION OF DRAWINGS - The figure shows a flowchart illustrating the **network element** connection establishment process.

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Set    Items    Postings  Description
S1     400      400   S AU=(JAIN C? OR JAIN, C?)
S2     133202   134939  S AU=(WANG Y? OR WANG, Y?)
S3     990      990   S AU=(CHAUDHARY A? OR CHAUDHARY, A?)
S4     1650     1650  S AU=(KANNAN R? OR KANNAN, R?)
S5     1293     1293  S AU=(LUO T? OR LUO, T?)
S6     1368     1368  S AU=(SUNDARAM M? OR SUNDARAM, M?)
S7     25845    26094  S AU=(ZHU J? OR ZHU, J?)
S8     942      942   S AU=(VENKATESAN R? OR VENKATESAN, R?)
S9     0        0   S S1 AND S2 AND S3 AND S4 AND S5 AND S6 AND S7 AND S8
S10    242      1181  S S1:S8 AND NETWORK???(3N)MANAG?
S11    5        49   S S10 AND NETWORK()ELEMENT? ?
S12    3        37   RD (unique items)
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12/5/3 (Item 2 from file: 8) <u>Links</u>
    Fulltext available through: <u>USPTO Full Text Retrieval Options</u>
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11086328   E.I. No: EIP06269966282
Title: NMS-EMS Ethernet management information model and its application

Author: Wang, Ying; Meng, Luo-Ming; Qiu, Xue-Song
Corporate Source: State Key Laboratory of Networking and Switching Technology Beijing University of Posts and Telecommunications, Beijing 100876, China

Abstract: A network and **network element** combined view information model of Ethernet at interface between **network management** system (NMS) and element management system (EMS) is defined. The structure layer of Ethernet and the partitioning of Ethernet layer network based on virtual local area network (VLAN) are discussed with defining network view information model. The modeling of bridge functional entities is involved in the **network element** view information model. This model is applied in Ethernet passive optical **networks** (EPON) **network management**. In this application, the association mechanism between network view and **network element** view information is proposed. Besides, an interaction scenario of bandwidth assignment based on the information model is analyzed. The information model proposed here has been verified by a prototype management system. And the information model has also been accepted as ITU-T Recommendation Q.838.1. 11 Refs.
Descriptors: *Management information systems; Local area networks; Quality of service; Bandwidth; Bridges
Identifiers: Management information model; Virtual local area network (VLAN); Ethernet passive optical networks (EPON); **Network element**; **Network management** system (NMS); Element **management** system (EMS); **Network** view information model; Element **management** layer (EML); Optical **network** termination (ONL); Optical line terminal (OLT)
 Classification Codes:
723.2 (Data Processing); 716.1 (Information & Communication Theory)
723 (Computer Software, Data Handling & Applications); 717 (Electro-Optical Communication); 716 (Electronic Equipment, Radar, Radio & Television)
72 (COMPUTERS & DATA PROCESSING); 71 (ELECTRONICS & COMMUNICATION ENGINEERING)

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